TSMC-00-511

January 5, 2004

To: Commissioner for Patents

P.O.Box 1450

Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572

28 Davis Avenue

Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/689,430 10/20/03

Hong-Miao Chen et al.

CONTAMINANT PARTICLE REMOVAL BY

OPTICAL TWEEZERS

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation In An Application.

The following Patents and/or Publications are submitted to comply with the duty of disclosure under CFR 1.97-1.99 and 37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on January (), 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

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- U.S. Patent 6,055,106 to Grier et al., "Apparatus for Applying Optical Gradient Forces," describes an apparatus for manipulating small dielectric particles.
- U.S. Patent 5,953,166 to Shikano, "Laser Trapping Apparatus," discloses a laser trapping apparatus.
- U.S. Patent 5,689,109 to Schutze, "Apparatus and Method for the Manipulation, Processing and Observation of Small Particles, in Particular Biological Particles," discloses an apparatus and method for the manipulation, processing and observation of small particles.
- U.S. Patent 5,620,857 to Weetall et al., "Optical Trap for Detection and Quantitation of Subzeptomolar Quantities of Analytes," discusses using tightly focused laser beams as optical tweezers.
- U.S. Patent 5,245,466 to Burns et al., "Optical Matter," discloses creating arrays using light beams coupled to microscopic polarizable matter.
- U.S. Patent 5,079,169 to Chu et al., "Method for Optically Manipulating Polymer Filaments," discloses a method for optically manipulating polymer filaments.

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- U.S. Patent 4,893,886 to Ashkin et al., "Non-Destructive Optical Trap for Biological Particles and Method of Doing Same," describes a non-destructive optical trap for biological particles.
- U.S. Patent 5,512,745 to Finer et al., "Optical Trap System and Method," discloses an optical trap system.

The following two U.S. Patents discloses optical trap related patents:

- 1) U.S. Patent 3,808,550 to Ashkin, "Apparatuses for Trapping and Accelerating Neutral Particles."
- 2) U.S. Patent 6,139,831 to Shivashankar et al., "Apparatus and Method for Immobilizing Molecules Onto a Substrate."

Sincerely

Stephen B. Ackerman, Reg. No. 37761

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		5953166	9/14/99	Shikano		359	837	11/21/97		
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